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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,587	01/22/2004	Dan Mirescu	60130-2002;02MRA0149	3019
26096	7590 03/30/2005	EXAM	EXAMINER	
	N, GASKEY & OLDS, MAPLE ROAD	WAKS, JOSEPH		
SUITE 350		ART UNIT	PAPER NUMBER	
BIRMING	HAM, MI 48009	2834		
			DATE MAILED: 03/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		Application No. 10/762,587	MIRESCU, DAN	(Br			
	Office Action Summary	Examiner	Art Unit				
	-	Joseph Waks	2834				
	The MAILING DATE of this communication			idress			
THE   - External efter - If the - If NO - Failur	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per re to reply within the set or extended period for reply will, by stately received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however reply within the statutory minimited will apply and will expire SIX atute, cause the application to be	r, may a reply be timely filed um of thirty (30) days will be considered time (6) MONTHS from the mailing date of this c ecome ABANDONED (35 U.S.C. § 133).				
Status							
· <u> </u>	,—						
Dispositi	on of Claims						
5)□ 6)⊠ 7)□ 8)□	Claim(s) 1-16 is/are pending in the application 4a) Of the above claim(s) is/are without claim(s) is/are allowed. Claim(s) 1-16 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and on Papers	drawn from considerati					
10)⊠	The specification is objected to by the Exam The drawing(s) filed on 12 January 2004 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the corrupt oath or declaration is objected to by the	are: a)⊠ accepted or he drawing(s) be held in rection is required if the d	abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 Ci	FR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119	•					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2) 🔲 Notice 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 No(s)/Mail Date	Pa <sub>(08)</sub> 5) □ No	erview Summary (PTO-413) per No(s)/Mail Date tice of Informal Patent Application (PTC ner:	D-152)			

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Art Unit: 2834

#### **DETAILED ACTION**

## **Priority**

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in France on Mai 22, 2002. It is noted, however, that applicant has not filed a certified copy of the 02/06213 application as required by 35 U.S.C. 119(b).

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 6 8-12 and 14-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Adam et al. (US 5,528,093).

Adam et al. disclose invention as claimed: a drive shaft 7, an electric motor 1 that rotatably drives the drive shaft, a magnet 7.2 disposed on the drive shaft, a sensor 8 disposed in proximity to the magnet and fixed to a circuit board 4, a removable connector 3 that supports the sensor and carries current to the electric motor the supply contacts (Re column 3, lines 55-64).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 2-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Adam et al. (US 5,528,093) in view of Santos et al. (US 4,987,415).

Adam et al. disclose the unit essentially as claimed. However, Adam et al. do not disclose the distance between the sensor and the magnet being maximum 4 mm and 2 mm.

Santos et al. disclose a high-resolution encoder with a plurality of North and South poles for a various automotive applications with a distance of between the magnet and the sensor of 0.036 inches or approximately 1 mm to provide high-resolution output signals.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the unit as taught by Adam et al. and to provide the encoder having the distance less than 2 mm or 4 mm as taught by Santos et al. for the purpose of providing high-resolution output signals. It would have been further obvious to one having ordinary skill in the art at the time the invention was made to provide the distance of 2 mm between the magnet and the sensor, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

6. Claims 7 and 13 rejected under 35 U.S.C. 103(a) as being unpatentable over Adam et al. (US 5,528,093) in view of Richeson (US 5,300,883).

Adam et al. disclose the unit essentially as claimed. However, Adam et al. do not disclose connection tabs fitted to the sensor to fix the sensor to the circuit board.

Richeson discloses a position sensor 14 having tabs 16 fixing the sensor to the circuit board 12 for the purpose of sensing the angular position of the shaft 6 relatively to the circuit board.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the unit as taught by Adam et al. and to provide the connection tabs fitted to the sensor to fix the sensor to the circuit board as taught by Richeson for the purpose of sensing the angular position of the shaft 6 relatively to the circuit board.

#### **Prior Art**

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Waks whose telephone number is (571) 272-2037. The examiner can normally be reached on Monday through Thursday 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E. Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph Waks Primary Examiner Art Unit 2834

3/25/05